



## **COST-Action FA 1104**

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**Advances and prospects on monitoring and  
modelling of *Drosophila suzukii* in Europe**

### **Author**

Jörg Samietz & Patrik Kehrli



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## 1.9 Alessandro Cini: Development of monitoring and GIS systems to assess distribution and diffusion of *Drosophila suzukii*

### DEVELOPMENT OF MONITORING AND GIS SYSTEMS TO ASSESS DISTRIBUTION AND DIFFUSION OF *D. SUZUKII*

Alessandro Cini<sup>1,2</sup>, Alberto Grassi<sup>3</sup>, Markus Neteler<sup>1</sup>, Alessio Papini<sup>4</sup>, Ugo Santosuosso<sup>5</sup>, Gianfranco Anfora<sup>1</sup>

<sup>1</sup>Fondazione Edmund Mach , Research and Innovation Centre, Via E. Mach, 1 - 38010 S. Michele all'Adige (TN), Italy

<sup>2</sup>Université Pierre et Marie Curie, Laboratoire Écologie & Évolution, 75252 Paris Cedex 05, France

<sup>3</sup>Fondazione Edmund Mach, Centre for Technology Transfer, Via E. Mach 1, 1-38010 San Michele all'Adige (TN), Italy

<sup>4</sup>Department of Biology, University of Florence, Via Micheli, 3, Italy

<sup>5</sup>Department of Clinical and experimental Medicine, Largo Brambilla, 3 - 50134, Firenze, Italy

The talk considers the monitoring and modelling of *D. suzukii*, focusing both at the local (Trentino-Alto Adige region, Italy) and at the European scale. *D. suzukii* presence and abundance data with different kinds of trapping systems are reported for the years 2010-2012, and the results are discussed with reference to climatic conditions and management strategies. Preliminary results of a new modelling approach which integrates GIS-based abiotic information and *D. suzukii* biological features are presented and suggest promising developments. Finally, a recently developed spatial technique is used to infer the most probability location of *D. suzukii* spread in Europe.